

IN THE CLAIMS:

1-16. (Cancelled).

17. (Currently Amended) Gear pump with variable throughput volume, ~~with~~ which comprises a housing defining a working chamber, two meshing gears with external toothings, which are rotatably mounted held in the a-working chamber of a pump the housing, at least one of the two gears being driven from a drive shaft and one of the two gears[7] being shiftable in the direction of its an axis thereof, wherein a gap-width, which defined as a distance measured in axial direction free space between an essentially plane first interior side wall of the working chamber of the pump housing and a first front face of the shiftable gear, is designed so as to be variable.

18. (Previously Presented) Gear pump according to claim 17, wherein a driven gear is shiftable in the direction of its axis.

19. (Previously Presented) Gear pump according to claim 17, wherein the gap-width is variable in a range between 0 and  $d/5$ ,  $d$  being an outer diameter of the shiftable gear.

20. (Previously Presented) Gear pump according to claim 19, wherein the gap-width is variable in a range between 0 and  $d/50$ .

21. (Previously Presented) Gear pump according to claim 17, wherein a second plane interior side wall of the working chamber parallel to and opposite of the first interior side wall is furnished with an

essentially cylindrical recess concentric with the gear axis and situated in an area of a second front face of the shiftable gear facing away from the first front face, the diameter of said recess being larger than the outer diameter  $d$  of the gear, at least in an area of the shiftable gear.

22. **(Previously Presented)** Gear pump according to claim 21, wherein a sealing plate is placed in an area of the recess, which plate separates the working chamber of the pump housing from a dead space inside the recess.

23. **(Previously Presented)** Gear pump according to claim 22, wherein the sealing plate is configured disk-shaped.

24. **(Previously Presented)** Gear pump according to claim 22, wherein the sealing plate is being fixedly attached to the shiftable gear.

25. **(Previously Presented)** Gear pump according to claim 22, wherein the sealing plate has radial relief grooves on the side facing the second front face of the shiftable gear, which are positioned such that each space between the teeth of the shiftable gear corresponds to at least one relief groove.

26. **(Previously Presented)** Gear pump according to claim 25, wherein an outlet groove is located in the second interior side wall of the working chamber opposite the first interior side wall in the meshing area of the gears on the pressure side, i.e., on the side where the sealing plate is located, which outlet groove is positioned in such a way that each relief

groove communicates at least once with the outlet groove during each revolution of the sealing plate.

27. **(Previously Presented)** Gear pump according to claim 22, wherein the dead space is flow-connected via a relief passage with a pressure sink.

28. **(Previously Presented)** Gear pump according to claim 27, wherein the dead center is flow-connected via the relief passage to a suction side of the pump.

29. **(Previously Presented)** Gear pump according to claim 27, wherein the dead center is flow-connected via the relief passage to a pump environment.

30. **(Previously Presented)** Gear pump according to claim 27, wherein the relief passage is furnished with a pressure relief valve opening in the direction of the pressure sink.

31. **(Previously Presented)** Gear pump according to claim 22, wherein the sealing plate has at least one sealing groove in its side wall, which groove extends along an entire circumference.

32. **(Previously Presented)** Gear pump according to claim 17, wherein a leakage channel departs from the dead space.

33. **(Previously Presented)** Gear pump according to claim 32, wherein the leakage channel is configured as a groove in the pump housing adjacent to the control shaft.

34. **(Previously Presented)** Gear pump according to claim 33,  
wherein the groove is shaped helically.
35. **(Previously Presented)** Gear pump according to claim 32,  
wherein the control shaft is shifted, at least in one direction, by an electric  
motor.
36. **(Previously Presented)** Gear pump according to claim 17,  
wherein the shiftable gear is rigidly mounted on a control shaft which  
rotates in the pump housing and can be shifted in the direction of axis.
37. **(Previously Presented)** Gear pump according to claim 36,  
wherein the sealing plate is rigidly mounted on the control shaft.
38. **(Previously Presented)** Gear pump according to claim 36,  
wherein the control shaft is furnished with at least one pressure plunger  
to effect the axial shift, which plunger cooperates with a pressure  
chamber containing a pressure medium.
39. **(Previously Presented)** Gear pump according to claim 38,  
wherein the pressure medium is identical with the medium to be pumped  
and the pressure chamber is flow-connected to the pressure side of the  
gear pump.
40. **(Previously Presented)** Gear pump according to claim 38,  
wherein the pressure chamber is connected with an external pressure  
source.

41. **(Previously Presented)** Gear pump according to claim 38,  
wherein the pressure chamber is connected with a clean-oil control  
device.

42. **(Previously Presented)** Gear pump according to claim 38,  
wherein a restoring spring acts on the control shaft thus counteracting  
displacement by the pressure plunger.